

MSR1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17001B**Specification**

MSR1 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	P21757
Other Accession	P21758 , NP_619729.1 , NP_619730.1
Reactivity	Human, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	336-364

MSR1 Antibody (C-term) - Additional Information**Gene ID** 4481**Other Names**

Macrophage scavenger receptor types I and II, Macrophage acetylated LDL receptor I and II, Scavenger receptor class A member 1, CD204, MSR1, SCARA1

Target/Specificity

This MSR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 336-364 amino acids from the C-terminal region of human MSR1.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MSR1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MSR1 Antibody (C-term) - Protein Information**Name** MSR1

Synonyms SCARA1

Function Membrane glycoproteins implicated in the pathologic deposition of cholesterol in arterial walls during atherogenesis. Two types of receptor subunits exist. These receptors mediate the endocytosis of a diverse group of macromolecules, including modified low density lipoproteins (LDL) (PubMed:[2251254](#)). Isoform III does not internalize acetylated LDL (PubMed:[9548586](#)).

Cellular Location

Membrane; Single-pass type II membrane protein.

Tissue Location

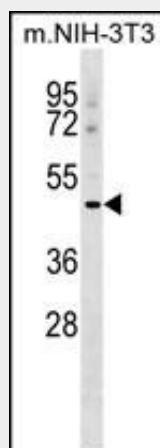
Isoform I, isoform II and isoform III are expressed in monocyte-derived macrophages. Isoform I and isoform II are expressed in the liver, placenta and brain.

MSR1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MSR1 Antibody (C-term) - Images



MSR1 Antibody (C-term) (Cat. #AP17001b) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane). This demonstrates the MSR1 antibody detected the MSR1 protein (arrow).

MSR1 Antibody (C-term) - Background

This gene encodes the class A macrophage scavenger receptors, which include three different types (1, 2, 3) generated by alternative splicing of this gene. These receptors or isoforms are macrophage-specific trimeric integral membrane glycoproteins and have been implicated in many macrophage-associated physiological and pathological processes including atherosclerosis,

Alzheimer's disease, and host defense. The isoforms type 1 and type 2 are functional receptors and are able to mediate the endocytosis of modified low density lipoproteins (LDLs). The isoform type 3 does not internalize modified LDL (acetyl-LDL) despite having the domain shown to mediate this function in the types 1 and 2 isoforms. It has an altered intracellular processing and is trapped within the endoplasmic reticulum, making it unable to perform endocytosis. The isoform type 3 can inhibit the function of isoforms type 1 and type 2 when co-expressed, indicating a dominant negative effect and suggesting a mechanism for regulation of scavenger receptor activity in macrophages.

MSR1 Antibody (C-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Wang, Y., et al. J. Hum. Genet. 55(8):490-494(2010)
Voruganti, V.S., et al. Am. J. Clin. Nutr. 91(6):1574-1583(2010)
Nonomura, N., et al. Cancer Sci. 101(6):1570-1573(2010)
Seizer, P., et al. Semin. Thromb. Hemost. 36(2):157-162(2010)

MSR1 Antibody (C-term) - Citations

- [AMP-activated protein kinase attenuates oxLDL uptake in macrophages through PP2A/NF-κB/LOX-1 pathway.](#)